Yalue of the coefficient of rock hardness from the Volyn coal deposit. Ugol' Ukr. 3 no.8:16-18 Ag '59. (MIRA 12:12)

1.Kiyavskiy politekhnicheskiy institut. (Lvov-Volyn Basin--Coal)

YEFREMOV, G.D., kand.tekn.nauk

Shaft equipment during the reorganization of deep Donets Pasin mines. Ugol' Ukr. no.6:8-10 Je '60. (MIRA 13:7)

1. Kiyevskiy politekhnicheskiy institut. (Donets Pasin-Coal mines and mining) (Shaft sinking)

KHARCHENKO, M.I.; YEFREMOV, G.D., kand tekhn.nauk

Development and timbering of deep mines in the Donets Basin. Ugol' Ukr. 5 no.4:8-9 Ap '61. (MIRA 14:4)

1. Glavnyy inzh.tresta Makeyevshakhtostroy (for Kharchenko).
(Donets Basin-Coal mines and mining)

YEFREWOV. Georgiy Dmitriyevich; KOCHERGA, N.T., red.; KRIVORUCHKO,P., tekhn. red.

[Working coal seams at great depths]Razrabotka ugol'nykh plastov na bol'shikh glubinakh. Kiev, Gostekhizdat USSR, 1962. 143 p. (MIRA 16:3)

(Coal mines and mining)

TIKHONOV, Mikhail Yegorovich, kand. tekhn. nauk; YEFREMOV, G.D., kand. tekhn. nauk, retsenzent; KOCHERGA, H.T., 4nzh., red.izd-va; SHAFETA, S.M., tekhn. red.

[Means of controlling roofs]Sposoby upravleniia krovlei. Kiev, Gostekhizdat USSR, 1962. 150 p. (MIRA 16:3) (Mine timbering)

YEFREMOV, G.D., kand. tekhn. nauk

Hypothesis of sudden rock outbursts in deep mine workings.
Ugol' Ukr. 10 no. 1:48-50 Ja '66. (MIRA 18:12)

1. Kiyevskiy politekhnicheskiy institut.

TROFIMOV, Vladimir Petrovich; YEFREMOV, G.D., kand. tekhn. nauk, ratsenzent; AFONINA, G.P.[Afonina, H.P.], red. izd-va; STARODUB, T.C., tekhn. red.; SHAFETA, S.M., tekhn. red.

[Ways of developing the coal industry of the Ukrainian S.S.R.]
Shliakhi rozvytku vuhil'noi promyslovosti URSR. Kyiv, Derzh.
vyd-vo tekhn. lit-ry URSR, 1963. 110 p. (MIRA 16:3)
(Ukraine--Coal mines and mining)

YEFREMOV, G. D., kand. tekhn. nauk

Injection and suction ventilation of deep mines. Ugol' Ukr. 7 no.4:10-13 Ap '63. (MIRA 16:4)

1. Kiyevskiy politekhnicheskiy institut.

(Donets Basin-Mine ventilation)

ORLENKO, C.P.; YFFREMOV, G.F.

Shock waves in metals. Izv. vys. ucheb. zav.; fin. nc.4:72-75 (MIRA 17:8)

1. Moskovskoye vysskeye tekhnicheskoye uchilishebe imeni Baumana.

L 08170-67 EWT(1) IJP(c) GG
ACC NR: AF6024875 SOURCE CODE: UR/0056/66/051/001/0156/0164

AUTHOR: Yefremov. G. F.

ORG: Radiophysics Institute of the Gor'kiy State University (Radiofizicheskiy institut Gor'kovskogo gosudarstvennogo universiteta)

TITLE: Symmetry relations for the cross susceptibility tensor

SOURCE: Zhurnal eksperimental noy i teoreticheskoy fiziki, v. 51, no. 1, 1966, 156-164

TOPIC TAGS: susceptibility tensor, quantum theory, perturbation theory, nonlinear effect, correlation function

ABSTRACT: Some general properties of the cross susceptibility, with account of spatial dispersion, are considered on the basis of the spectral representation, for a close quantum-mechanical system acted upon by an external field. The motion of th system under the action of the field is described by a density matrix, the equation for which is solved by time-dependent perturbation theory. Symmetry relations that are generalizations of the Onsager reciprocity relations for the linear susceptibility are derived from the invariance of the equations of motion with respect to time reversal. The connection between the nonlinear response and the fluctuations of quantities corresponding to the dynamical variables in the unperturbed system is established in general form. The cross susceptibility of the system characterizes the nonlinear response to a monochromatic field. Some of the general properties which follow from the definition of the cross susceptibility and its spectral representation and which are independent of

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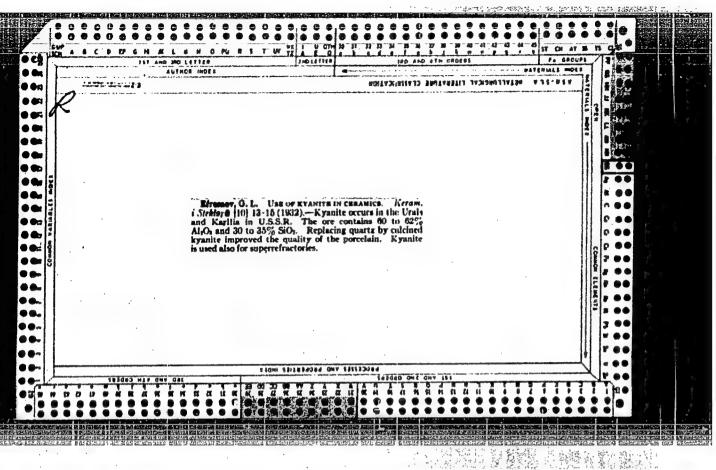
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the nonlinear response three quantititions with the relation perturbed system (tit is also noted the pan also be expressed the analysis. The analysis.	f the Hamiltonian of the system are given. nse of the system to an external perturbat es in a state of thermodynamic equilibrium on between the linear susceptibility and t he Callen-Welton theorem or the fluctuatio at the fluctuations in a system in the pre ed in terms of the correlation functions d he author thanks V. M. Fayn for a discussion r very valuable remarks. Orig. art. has:	is established, in anal- the fluctuations in an un- on-dissipation theorem). esence of external fields lorived during the course ton of the problems treated
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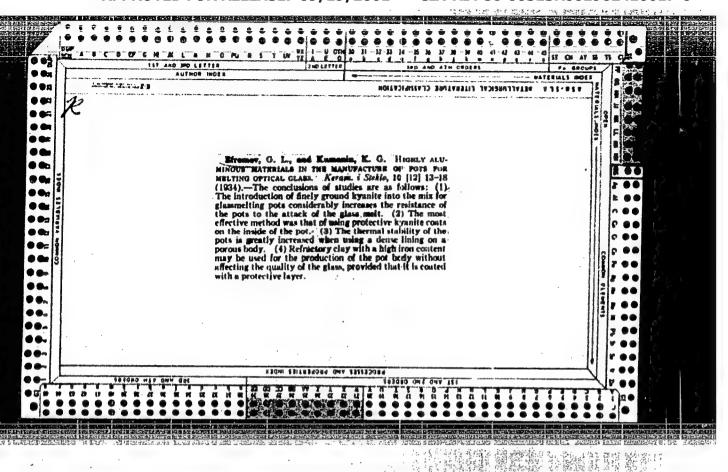
GIAVATSKIY, S.M.; YEFREMOV, G.K.

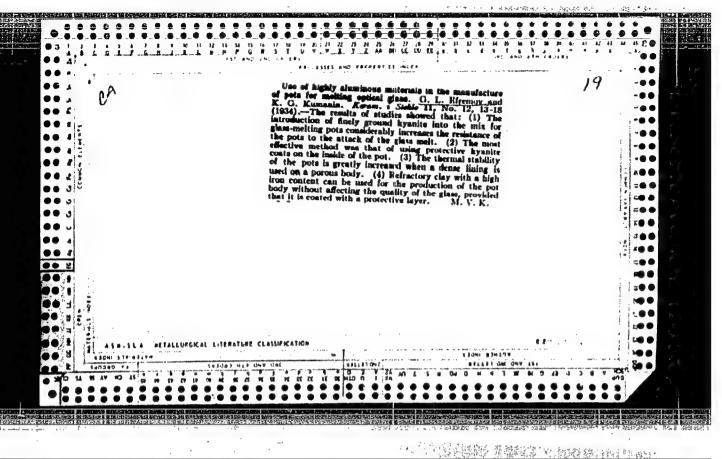
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(MLRA 9:11)

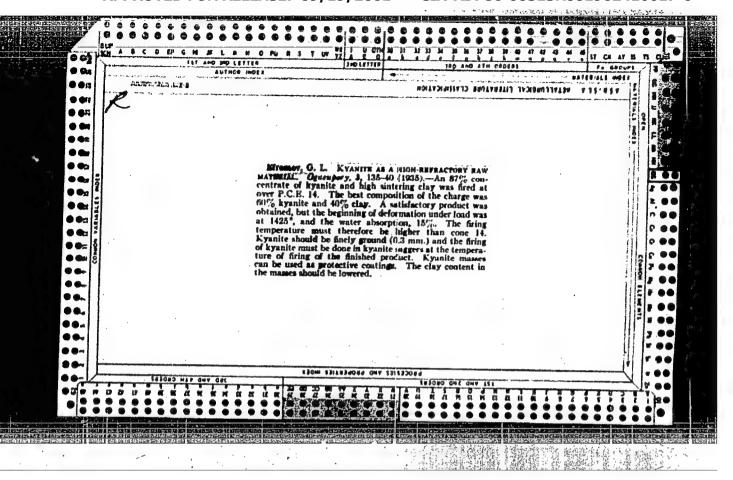
(Sarychev Peak)

(Sarychev Peak)



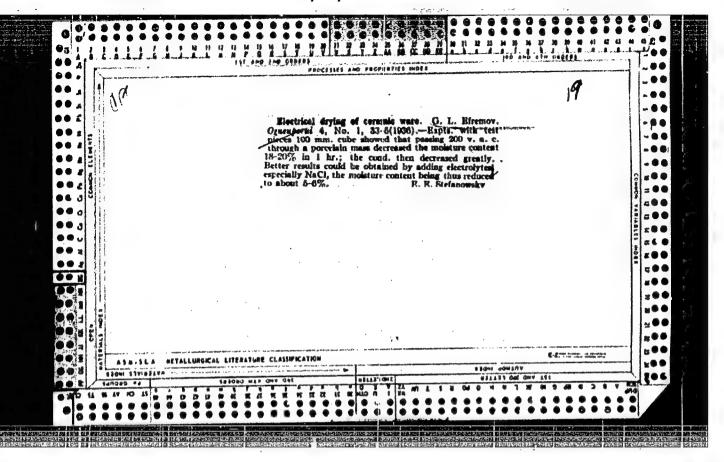


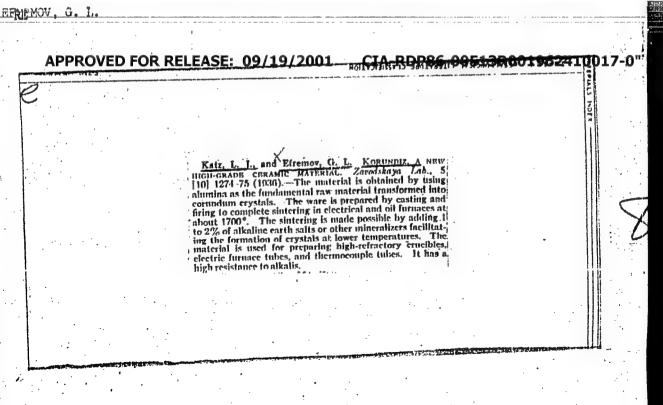


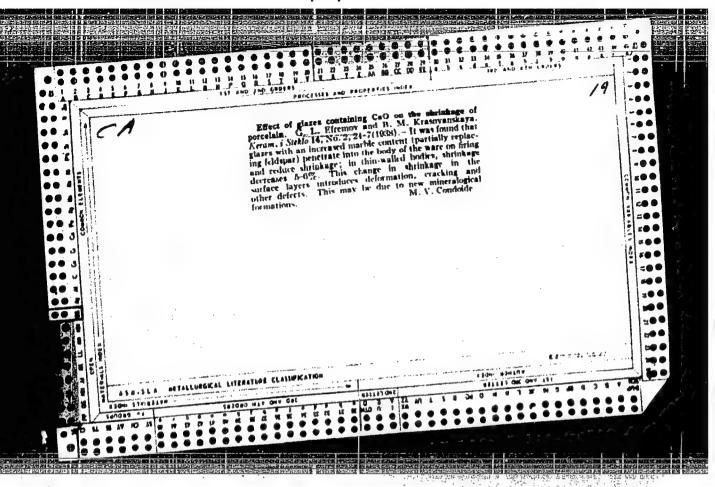


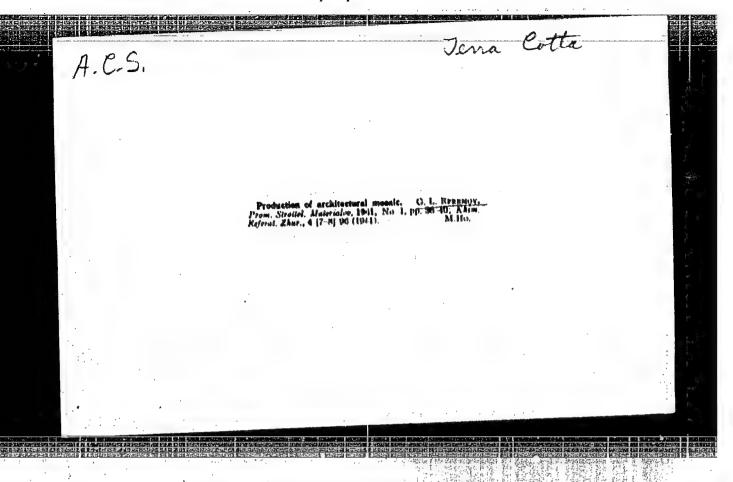
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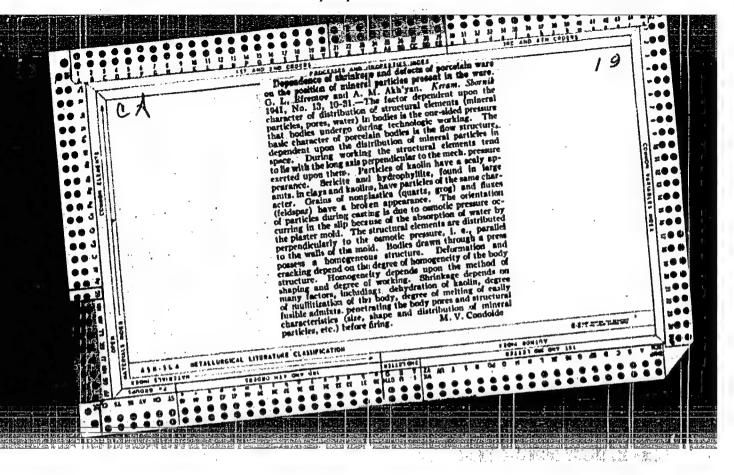
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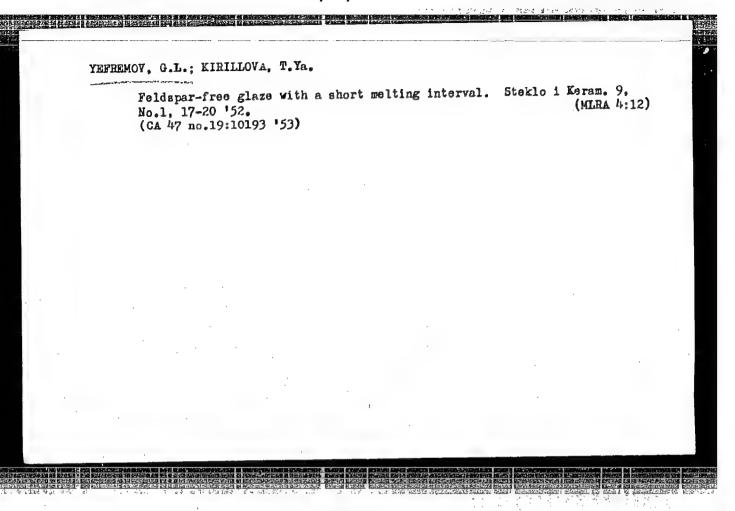








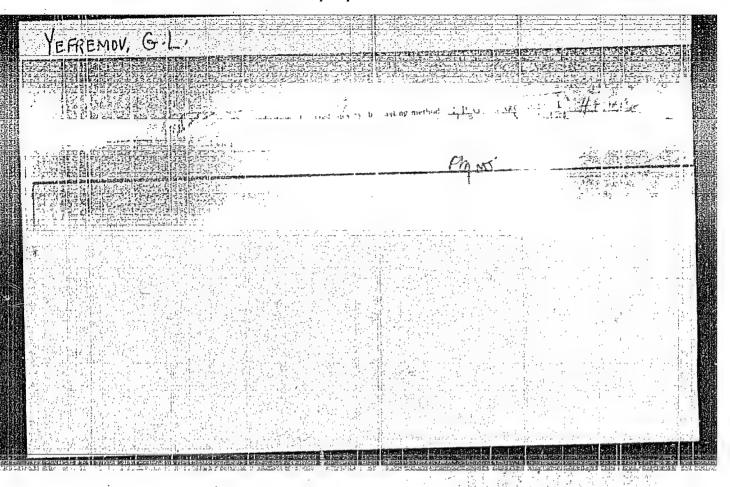


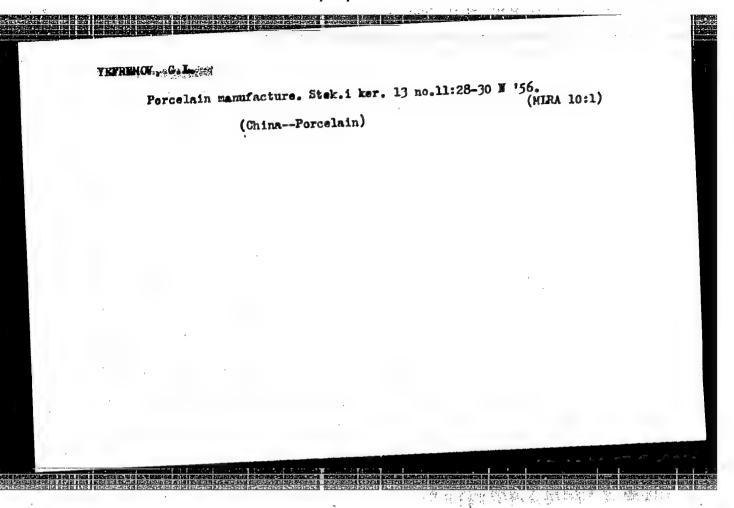


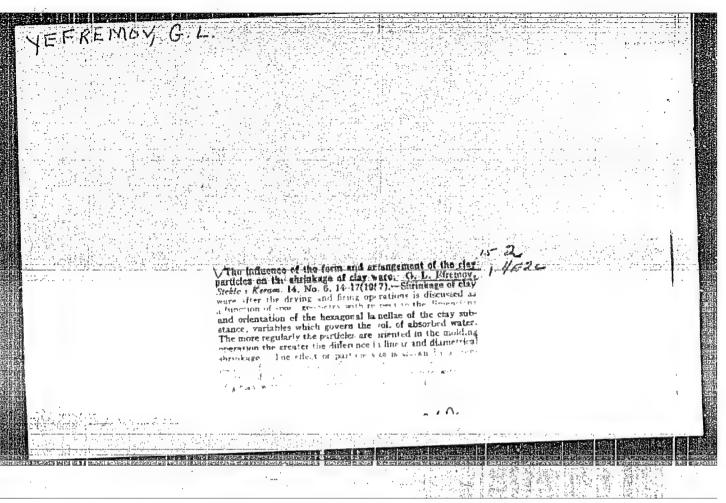
YEFREMOV, G. L.

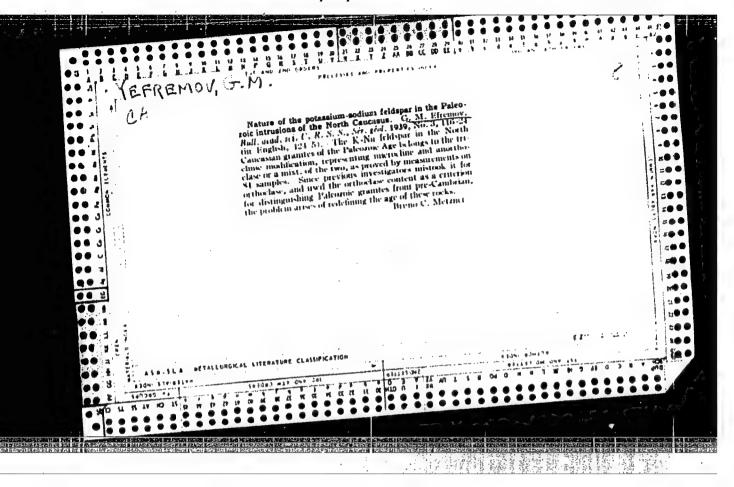
"The Influence of Air Inclusions, Form and Disposition of Clayey Particles on Shrinkage and Imperfections of Ceramic Products." Cand Tech Sci, Chair of Ceramic Production Technology, Leningrad Order of Labor Red Banner Technological Inst imeni Lensovet, Min Higher Education USSR, Leningrad, 1954. (KL, No 1, Jan 55)

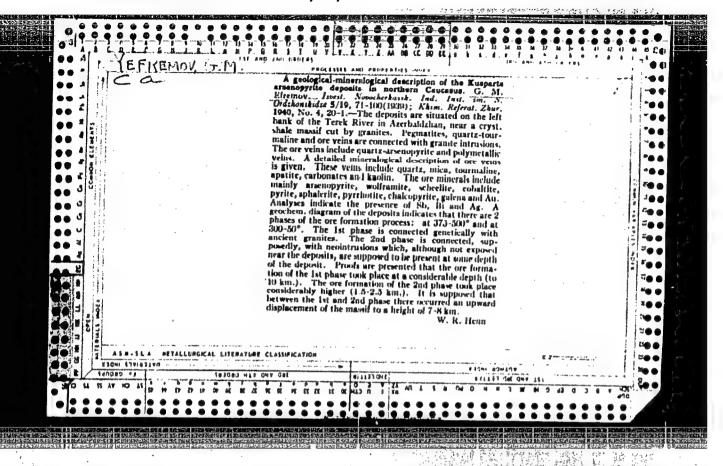
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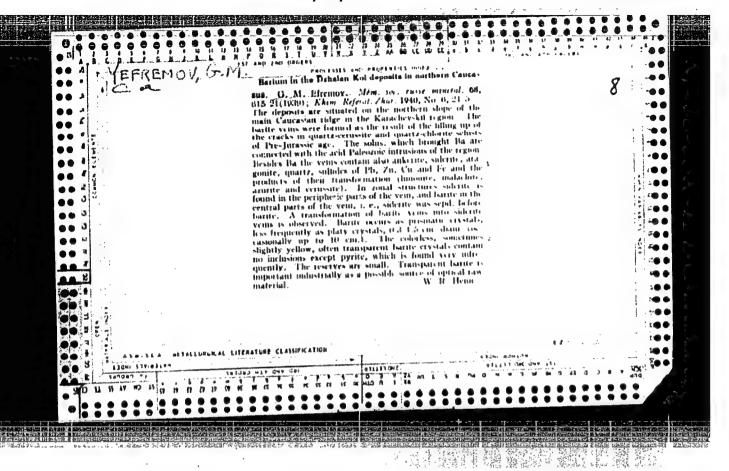


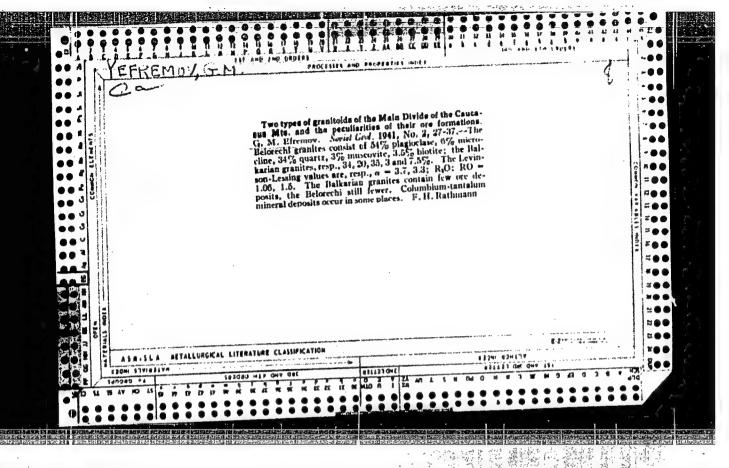












YEFREMOV, G. M.

Yafremov. G. M. "The tectonic structure of the Northwestern Kavkhaz and the history of its formation," Trudy Novocherkas. politekhn. in-ta im. Ordzhonikidze, Vol. XVII, 1948, p. 25-32 - Bibliog: 7 items

So: U-3264, 10 April 1953, (Letopis 'Zhurral 'nykh Statey, no. 3, 1949)

YETREMOV, G. M.

Yefremov, G. M. "The structure of Kholstinskiy lead-zinc deposit in the Northern Kavkhaz," Trudy Novocherkas, politekhn. in-ta im. Ordzhonikidze, Vol. XVII, 1948, p. 33-43 - Bibliog: 6 items

SO: U-3264, 10 April 1953, (Letopis 'Zhurnal 'nykh Statey, no. 3, 1949)

YEFREMOV, G. O.

20983 Yefremov, G. o. Predel' Noye potrebleniye kisloroda u yunoshey v svyazi s pokazatelyami ikh fizicheskay podgotculennost: Teoriya i praktika fiz kul'tury, 1949, vyp. 5, s. 352-59.

SO: LETOPIS ZHURNAL STATEY - Vol. 28, Moskva, 1949

YEFREMOV, Georgiy Osipovich; FAYNBOYM, I.B., red.; RAITIN, I.T.,
tekhm. red.

[Mathematical logic and calculating machines] Matematicheskaia logika i mashiny. Moskva, Izd-vo "Znanie," 1962. 43 p.
(Novoe v zhizni, nauke, tekhnike. IX Seriia; Fizika i khimiia,
(Novoe v zhizni, nauke, tekhnike. IX Seriia; Fizika i khimiia,
(NIRA 15:7)

(Logic, Symbolic and mathematical)

(Electronic calculating machines)

YEFREMOV, Georgiy Oslpovich; FAYNBOWM, I.B., red. [Algorithms] Algoritmy. Moskva, Zmanie, 1964. 28 p. (Novoe v zhizni, nauke, tekhnike, IX Seriia: Fizika, matematika, astronomiia, no.23) 1. Zaveduyushchiy kafedroy matematiki Chuvashskogo peda-gogicheskogo instituta, g.Cheboksary (for Yefremov).

> CIA-RDP86-00513R001962410017-0" APPROVED FOR RELEASE: 09/19/2001

Develop technical training of readvorted (MIRA 12:17) D '58. 1.Zamestitel' nauchal'nika upravleniya kadrov i uchebnykh savedeniy Minavtoshosdora RSFSR. (Reads) (Gerrespondence schools and courses)	b Jos	YEFREMOV.	G.P. Develop technical training of roadworkers. Avt. dor. 21 no.12:23-24 (MIRA 12:1)	
		And the second s	b you unwayleniya kadrov i uchebnykh kavedoni	* * * * * * * * * * * * * * * * * * * *

VETREMEN, G.V.

137-58-1-2145

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 1, p 292 (USSR)

Yefremov, G. V. Galibin, V. A. AUTHORS:

On Thallium Colorimetry (K voprosu o kolorimetricheskom TITLE: opredelenii talliya)

PERIODICAL: Uch. zap. LGU, 1957, Nr 211, pp 83-86

It is shown that determination of Tl by methyl red (I) requires decomposition of excess NaNO2 which would decompose the I. ABSTRACT: As a result, the colored benzene layer becomes cloudy and this reflects upon the results of colorimetry. It is shown that at a Cl strength greater than 2N urea does not reduce Tl because of the high stability of TICl4". To 4-5 cc of solution containing < 50 % T1+, 2 cc 10 percent Na NO2 and 5 cc concentrated HC1 is added (the normality of the solution at the moment of oxidation should be \geq 3). After 5 min the excess oxidizer is decomposed by 5 cc urea. The volume of solution is brought to 100 cc, 2 cc 0.2 percent solution I is added, and the Tl is extracted by two equal amounts of benzene (25 cc total). The acidity of the solution at the moment of extraction is 0.45-0.5 N. The benzene layer is then subjected to colorimetry. It is found that fuchsin,

Card 1/2

137-58-1-2145

On Thallium Colorimetry

parafuchsin, aniline, blue, basic blue, cetoglaucine, cetocyanine, and chrome green do not form colored compounds with TlCl₄. Methyl green produces a reversible reaction. Malachite green, basic bright green, and turquoise blue are suited to the colorimetry of Tl.

V. P.

1. Thallium-Determination 2. Thallium-Colorimetric analysis 3. Colorimetry -- Applications

Card 2/2

Yetiemer, G.V.

137-1957-12-25519

Translation from: Referativnyy zhuznal, Metallurgiya, 1957, Nr 12, p 367 (USSR)

Yefremov, G. V., Alekseyev, I. P. AUTHORS:

of Thallium (III) with the Hydroxide of Tetra-TITLE: Coprecipitation

valent Manganese Soosazhdeniye talliya (III) gidrookis'yu

chetyrekhvalentnogo margantsa_

PERIODICAL: Uch. zap. LGU, 1957, Nr 211, pp 87-91

MnSO4 is added to a solution of Tl3+ (if the concentration of ABSTRACT:

Tl is greater than 1 /ml, a ten-fold amount of MnSO4 will suffice, whereas at smaller Tl concentrations the amount of MnSO4 is increased to 80-100 times), followed by 10 drops of 30 percent H2O2 solution; under constant stirring a 2N solution of NaOH is added dropwise until a methyl orange indicator shows that neutrali-

zation is reached; and then in sufficient quantity to precipitate the Mn and Tl. The solution is heated to a temperature of 70° in order to disperse the colloidal suspension of H2MnO3 formed and to obtain a clear solution. Three hours later the precipitate is filtered out, transferred into a beaker and dissolved by

a few drops of HCl and H2O2. The solution is then evaporated in Card 1/2

137-1957-12-25519

Co-sedimentation of Thallium (III) by the Hydroxide (cont.)

a hot water bath almost to dryness, in order to remove excess H_2O_2 , and 5 ml of 6N HCl are added to it, followed by 2 ml of a 10 percent NaNO3. After 2-3 minutes a reddish-orange coloration appears and is made to disappear by a two-fold dilution of the solution with water. One ml of saturated urea solution is added, diluted to 100 ml, which is followed by an addition of 40 drops of 0.2 percent solution of methyl-violet. Complete removal of Tl from the solution, the total volume of C6H6 being 25 ml, is accomplished in three successive extractions. Intensity of the C6H6 coloring was measured on a photometer of FM type, equipped with an Nr 3 filter. Tl content is determined on a previously constructed calibration curve. The presence of Sb interferes with the determination of Tl.

Kh. Sh.

1. Thallium-Precipitation manganese-Applications

2. Hydroxide of tetravalent

Card 2/2

VASIL'IEV, Vladimir Vissarionovich; IEFREMOV, German Vasil'yevich;
TIKHOMISOV, Vladimir Ivanovich; MORACHEVSKIT, Tu.V., prof.,
otv.red.; SHCHEMELEVA, Ye.V., red.; SEMENOVA, A.V., teckim.red.

[Short course in analytical chemistry for biology students]
Kratkii kura analitichoskol khimii dlia biologov. Izdvo
Leningr. univ., 1956, 296 p.
(Chemistry, Analytical)

Yefremov, G. V., Hsu Chi-Ku AUTHORS:

SOV/54-58-3-19/19

TITLE:

On the Method of the Colorimetric Determination of Thallium by Means of Methyl Violet (O metode kolorimetricheskogo

opredeleniya talliya s metilfioletovym)

PERIODICAL:

Vestnik Leningradskogo universiteta. Seriya fiziki i khimii, 1958, Nr 3, pp 156-159 (USSR)

ABSTRACT:

The authors used methyl violet for the determination of thallium in the concentrate obtained after the simultaneous precipitation of thallium together with tetravalent manganese hydroxide (Ref 5). The methyl violet methods suggested by various authors for the final determination of thallium exhibit differences in their details. For this reason in the present short note the separate methods of chemical preparation of the samples were subjected to an examination. It was shown that in the colorimetric determination the ions CNS and J^{-} have a disturbing influence. The ion MoO-02which floats at the boundary between water and the organic

Card 1/2

phase must be eliminated. The separation of antimony by precipitating it in the form of SbOCl is not recommended

SOV/54-58-3-19/19

On the Method of the Colorimetric Determination of Thallium by Means of Methyl Violet

> in the case of a low thallium content; neither is the application of sodium nitrate as oxidizing agent. The acid dissociation (kislotnoye razlozheniye) is regarded to be the most convenient method but it should be applied in the case of an obligatory removal of the excess acid only in water bath. All investigations were carried out by means of the thallium 204 tracer atoms. There are 2 tables and 14 references, 11 of which are Soviet.

SUBMITTED: January 2, 1958

Card 2/2 USCOMM-DC. 60, 724

SOV/156-58-4-23/49

AUTHORS:

Morachevskiy, Yu. V., Yefremov, G. V., Few Gai-ai

TITLE:

The Separation of Thallium From Accompanying Elements by Coprecipitation With Silver Iodide (Otdeleniye talliya ot soputstvuyushchikh elementov soosazhdeniyem yego s iodidom

serebra)

PERIODICAL:

Nauchnyye doklady vysshey shkoly. Khimiya i khimicheskaya

tekhnologiya, 1958, Nr 4, pp 706-709 (USSR)

ABSTRACT:

In the present paper detailed investigations concerning conditions of the coprecipitation of microquantities of thallium with silver iodide under the simultaneous separation of the element from its accompanying elements were carried out. The complete coprecipitation of thallium depends on the pHvalue of the solution and the ripening time of the precipitate. The maximum coprecipitation occurs at pH 2 and 3. Maintaining optimum conditions it is possible to obtain the quantitative coprecipitation of thallium with silver iodide from dilute solutions (0.1 % Tl in 25 ml). The quantitative separation of microquantities of thallium from the accompanying elements chromium, mercury, antimony, gold and copper was determined.

Card 1/2

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sov/156-58-4-23/49

The Separation of Thallium From Accompanying Elements by Coprecipitation With Silver Iodide

By means of Sb¹²⁴ it was shown that under optimum conditions for the quantitative coprecipitation of thallium no antimony is coprecipitated with silver iodide. In the presence of large quantities of mercury it is necessary to repeat the process as mercury is coprecipitated in large amounts with silver iodide. There are 4 tables and 9 references, 7 of which are Soviet.

are Soviet

ASSOCIATION: Kafedra analiticheskoy khimii Leningradskogo gosudarstvennogo

universiteta (Chair of Analytical Chemistry at the Leningrad

State University)

SUBMITTED: February 17, 1958

Card 2/2

"APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001962410017-0

AUTHORS:

Yefremov, G.V., Andreyeva, I.Yu.

54-10-2-12/16

TITLE:

The Co-Precipitation of Thallium and Cadmium Sulfide

(Soosazhdeniye talliya s sul'fidom kadmiya)

PERIODICAL:

ABSTRACT:

Vestnik Leningradskogo Universiteta, Seriya fiziki i , 1958, Vol.10, Nr 2, pp. 117-121 (USSR)

khimii

Best des les lettes et la cons

I.P. Alimarin (Ref 1) and other authors showed that cadmium sul-

fide is a good collector for microgram quantities of thallium. In view of the quantities of thallium that are usually lost in production and because of the difference in the conditions of coprecipitation, the authors studied the co-precipitation of thallium with cadmium sulfide. Final determination was carried out according to the calorimetric method by the application of methyl violet after oxidation of the thallium by bromine, water. Under prevailing conditions the ions [CdBr] and [CdCl] are formed, which, according to data supplied by N.T. Voskresenskaya (Ref 4) form compounds with vat dyes and thereby render the determination of thallium difficult. It was found by an investigation of this development that if up to 75 milligrams of cadmium are present, the influence exercised by the ion [CdBr] is so small that it is hardly

Card 1/2

The Co-Precipitation of Thallium and Cadmium Sulfide

54-10-2-12/16

manifested at all in results obtained, nor was thallium determination influenced in any way by the presence of the ion [CdCl,] "under the same conditions. Average values of the precipitation percentage of thallium for different correlations of thallium, cadmium, and pH solution are given (table 1). It may be seen from this table that the highest co-precipitation percentage is found at pH 5-5,6. Both an increase and a reduction of pH, conditions otherwise remaining the same, leads to a reduction of the percentage. Precipitation of sulfide was, in the case of all previous experiments, carried out at a temperature of 70-80°. At lower temperatures precipitation is finely dispersed, and therefore co-precipitation of thallium increases. At low precipitation temperatures (20°) the coagulation of the precipitation is made difficult. For a long time it remains in the form of sol (table 3). In the case of repeated precipitation of cadmium sulfide thallium can practically be fully eliminated. The values obtained show that the coprecipitation of thallium with cadmium sulfide takes place mainly at the expense of surface adsorption. There are 7 tables, and 4 references, all of which are Soviet.

SUBMITTED:

December 25, 1957

AVAILABLE:

Library of Congress

Card 2/2

- 1. Thallium-Precipitation 2. Cadmium sulfide-Precipitation
- 3. Thallium—Determination 4. Cadmium sulfide—Determination

5. Colorimetry-Applications

APPROVED FOR RELEASE: 09/19/2001 CIA-F

CIA-RDP86-00513R001962410017-0"

YEPHENOV, G.V.; SYUY CHZHI-QU [Hsiu Chih-ku]

Golorimetric determination of thallium with mathyl violet [with summary in English]. Vest. LQU 13 no.16:156-159 '158.

(MIRA 11:11)

(Thallium-Analysis) (Colorimetry) (Methyl violet)

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5(2) AUTHORS:

Yefremov, G. V., Leont'yeva, S. A.

TITLE:

Co-precipitation of Thallium With Zinc Sulphide (Soosazhdeniye

SOV/54-59-1-20/25

talliya s sul'fidom tsinka)

PERIODICAL:

Vestnik Leningradskogo universiteta. Seriya fiziki i khimii,

1959, Nr 1, pp 141-144 (USSR)

ABSTRACT:

In the present paper the authors report on co-precipitation of thallium with zinc sulphide as a collector in dependence on various factors. Precipitation of thallium occurred at various pH-values (2.6, 4.0, 5.6) of the buffer solution. A description of the precipitation course is given. Thallium in the precipitate is determined by the colorimetric methyl violet method (Refs 5-8). Table 1 shows the dependence of the quantity of thallium precipitated (in %) on the pH-value and on the various ratios of thallium with zinc. Under the same conditions stated in table 1, table 2 gives an additional description of the dependence of the precipitated thallium quantity on the maturing time of the precipitate. The influence exerted by the dilution of the solution (Table 3) becomes clearly evident only after a fivefold dilution. Investigations showed one of the primary conditions for

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Co-precipitation of Thallium With Zinc Sulphide

sov/54-59-1-20/25

the quantitative precipitation of thallium to be a two or three times repeated introduction of additional zinc sulphide in the solutions. The indications given here concerning the conditions of a quantitative precipitation of thallium may be utilized in the analysis of metallic zinc, zinc ores and waste products resulting from the production of zinc, for the determination of a microcontent of thallium. There are 6 tables and 8 Soviet references.

SUBMITTED:

June 10, 1958

Card 2/2

5(2) SOV/54-59-2-23/24 AUTHORS: Yefremov, G. V., Kim Gun On, Shiryayev, B. V.

Co-precipitation of Thallium With Copper and Mercury Iodides TITLE: (Soosazhdeniye talliya s iodidami medi i rtuti)

PERIODICAL: Vestnik Leningradskogo universiteta. Seriya fiziki i khimii, 1959, Nr 2, pp 152-155 (USSR)

ABSTRACT: The co-precipitation proved to be one of the most promising enrichment or concentration methods of separating thallium from materials with a very low content of thallium. Poorly soluble metal iodides are used as collectors for the thallium. Similar investigations with copper and silver iodides are indicated in publications (Refs 1-2). Investigations with copper and mercury iodides have not yet been carried out. This method tested in this paper with the monovalent metal iodides of the mentioned metals, proved to be particularly suitable for investigations of mercury-containing materials on one hand; on the other hand, the presence of copper does not disturb the final determination of thallium by the colorimetric methyl violet method. In order to prevent the formation of free iodine in the copper iodide solution, the presence of which disturbs the precipitation of

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Co-precipitation of Thallium With Copper and Mercury Iodides

SOV/54-59-2-23/24

thallium, a reducer was introduced in the form of fresh-made sulphuric acid. To investigate the optimum conditions for a complete precipitation of thallium, the copper iodide content and the pH-value of the solution were varied in a solution volume of 25 ml at 180 and a thallium content of 50 r Th. The results of this investigation are compiled in a table. The optimum conditions were attained at a pH-value of 2.9 and a thallium-copper ratio of 1:200. At an increase in temperature, the precipitation of thallium became worse. Investigations with thinner solutions also yielded worse results. The precipitation mechanism is considered as a surface adsorption of the thallium on the copper iodide. Besides, the thallium is determined in some natural compounds by means of this method. For the precipitation of thallium with mercury iodide, an excess of potassium iodide had to be introduced to stabilize the Hg₂J₂; in this way, it was possible to precipitate 95% of the thallium from 20 ml of solution (0.001 mol/1 KJ excess) with 25 x thallium at a pH-value of 3.3 - 4 and a mercurythallium ratio of 1:1300. A further excess in KJ reduced the

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Co-precipitation of Thallium With Copper and Mercury Iodides

SOV/54-59-2-23/24

yield. Tests with a boiling solution yielded worse results. The precipitation mechanism ${\rm Hg_2J_2}$ - Th is also considered as a surface adsorption. There are 1 table and 5 Soviet references.

SUBMITTED:

December 22, 1958

CIA-RDP86-00513R001962410017-0" APPROVED FOR RELEASE: 09/19/2001

sov/156-59-2-18/48

5(2) AUTHORS:

Heil Chisku Yefremov, G. V., Morachevskiy, G. V., المفاقعين والمفاقعة بالمقافية والمقافية المتابية والمجاز أأرار أأوا والمفاهض ومدودة

TITLE:

On the Co-precipitation of Thallium With Lead Sulphate(0 so-

osazhdenii talliya s sul'fatom svintsa)

PERIODICAL:

Nauchnyye doklady vysshey shkoly. Khimiya i khimicheskaya

tekhnologiya, 1959, Hr 2, pp 293-295 (USSR)

ABSTRACT:

The quantitative separation of thallium from lead is investigated in the case the latter is precipitated as sulphate. The separation was investigated by means of T1214. Table 1 shows that $PbSO_4$ carries down a considerable amount of thallium which is probably due to a double salt PbSO4.Tl2SO4.nH2O.

Experiments showed that in the case of high concentrations

of K^+ -(or NH_A^+ -)-ions in the solution the aforementioned formation of a double salt is avoided. A method of analysis is worked out on this basis. Lead is precipitated in the presence

of potassium nitrate or potassium sulphate, thallium is photometrically determined by means of methyl violet. Table 2 shows the data of the analytical determination of thallium in galenite and the comparison with the results of spectrum

Card 1/2

sov/156-59-2-18/48

On the Co-precipitation of Thallium With Lead Sulphate

analysis carried out by A. N. Murav'yeva in the VSYeCYeI (Vsesoyuznyy nauchno-issledovatel'skiy geologicmkiy institut ilinistensiva geologii) (All-Union Scientific Geological Research Institute of the Ministry of Geology)). The authors thank V. I. Grebenshchikova for valuable advice. There are 2 tables and 14 references,

10 of which are Soviet.

PRESERTED BY: Kafedra analiticheskoy khimii Leningradskogo gosudarstvennogo

universiteta im. A. A. Zhdanova

(Chair of Analytical Chemistry, Leningrad State University

imeni A. A. Zhdanov)

SUBMITTED: October 13, 1958

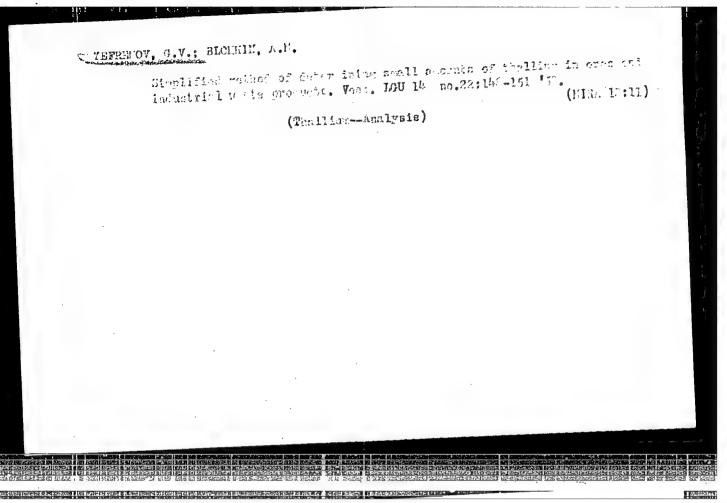
Card 2/2

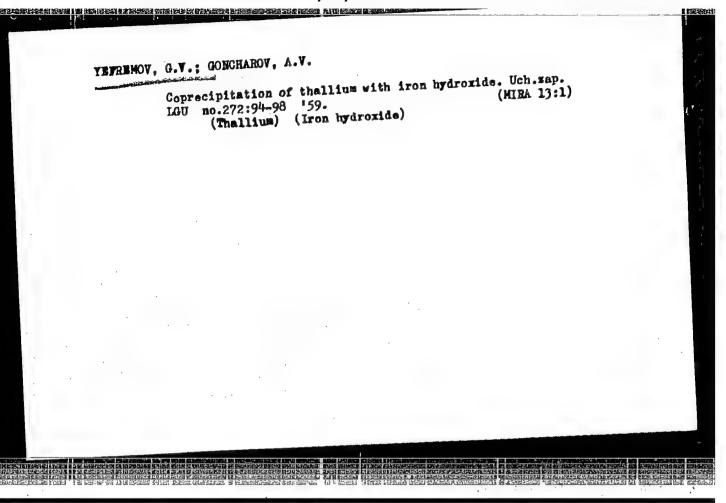
TREFREMOV, G.V.; KIM GUN ON; SHINYAYEV, B.V.

Coprecipitation of thallium with copper and mercury iodides. Vest.

IGU 14 no.10:152-155 *59.

(Thallium) (Iodidos)

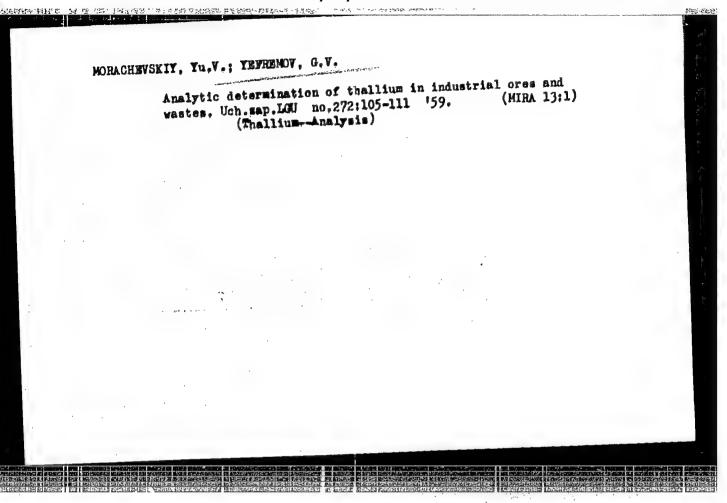




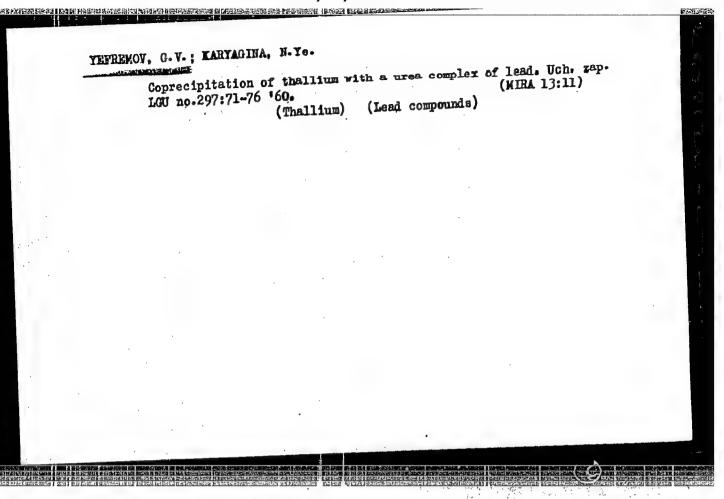
YEFHEMOV, G.V.; STOLYAROV, K.P.

Photometric determination of thallium in the ultraviolet region of the spectrum. Uch.sap.LGU no.272:99-104 '59. (MIRA 13:1)

(Tallium-Spectra)



YEVREMOV, G.V.; VETOSIKINA, A. F. On the separation of thallium by means of radial paper chromatography. Uch. sap. LOU no.297:53-57 60. (Thillium)



s/054/61/000/002/005/005 B 101/B207

ATITHORS:

Morachevskiy, Yu. V. (Deceased), Yefremov G. V.,

Hsu Chih-ku

TITLE:

Concentration of thallium by coprecipitation with difficultly

soluble iodides

PERIODICAL: Leningradskiy Universitet. Vestnik. Seriya fiziki i khimii,

no. 2, 1961, 137 - 141

TEXT: This is a condensed reproduction of a report delivered to the sektsiya obshchey khimii, Leningr. otdelenive khim. o-va im. Mendeleyeva (Section of General Chemistry, Leningrad Department of the Chemical Society imeni Mendeleyev) on January 22, 1959. This study dealt with the concentration of thallium for its colorimetric analysis by means of methyl violet and its separation from elements disturbing the colorimetric analysis. The coprecipitation of Tl with the iodides of Ag, Pb, Bi, and monovalent Cu and Hg was investigated. The precipitation was checked by means of radioactive indicators. The data for Ag have already been

Card 1/5

S/054/61/000/002/005/005 B101/B207

Concentration of thallium by ..

published (Ref. 1: Yu. V. Morachevskiy et al., Nauchn. dokl. vysshey shkoly SSSR, Khimiya i khim. tekhnologiya, no. 4, 706 - 709, 1958). The following was found to hold for the other coprecipitants: 1) At pH The following was found to hold for the other coprecipitants: 1) At pH The following was found to hold for the other coprecipitants: 1) At pH The following was found to hold for the other coprecipitants: 1) At pH The following was found to hold for the other coprecipitants: 1) At pH The following was the use of Pb difficult. Some complexes with organic reagents, renders the use of Pb difficult. The form the precipitate contained 99.5% and The description with Guzia showed that the precipitate contained 99.5% at pH 8 - 9. 4) Coprecipitation with Hg2I2 requires a large Hg2I2 excess. The description of Tl from the precipitate, observed on standing, was the description of Tl from the precipitate, observed on standing, was studied. Oxidation was found to occur at low pH: 2I'+4H°+02=I2+2H20.

Tl'+I2+2I'=Tll'4. This was proved by the effect of reducing (sodium sulfite, hydroxylamine) and oxidizing (bromine water) reagents. Coprecipitation takes place by adsorption of Tl on the surface of the precipitate. Table 1 lists experimental data. In view of the tendency of Pb²⁺, Card 2/5

S/054/61/000/002/005/005 B101/B207

Concentration of thallium by ...

Cu²⁺, Bi³⁺ to form complex compounds in the presence of Trilon B and of Pb²⁺ and Cu²⁺ to form complex compounds with citrates, AgI is the best collector for Tl. Separation of Tl from Au³⁺, Hg²⁺, Cr³⁺, Cu²⁺, Sb³⁺ by means of AgI yielded good results. To determine Tl in plumbiferous and pumbiferous substances, the following suggestion is made, decomposition of the weighed portion by heating with concentrated HCl, addition of HNO₃, evaporation, and filtering. Evaporation of the filtrate, addition of NaOH up to pH = 4 (at high Fe content) or pH = 9 (at low Fe content), addition of Trilon B (at pH < 6) or sodium citrate (at pH > 7), addition of Na₂SO₃, KI and AgNO₃. Filtering and washing with KI solution. Dissolution of the precipitate in hot HNO₃ (1:1). Removal of HNO₃ and I₂ by evaporation. Oxidation by dropwise addition of H₂O₂, addition of NH₄Cl and Br₂ solutions, heating, extraction by phenol addition, methyl violet, and benzene. Colorimetric analysis of Tl in the organic phase in an \$\phiHCard 3/5

S/054/61/000/002/005/005 B101/B207

Concentration of thallium by ...

(FEK-M) apparatus. Separation from lead is effected by precipitation as PbSO 4 after dissolution of the weighed portion. This method was checked:

1) with thallium-free nickel ore, to which 20µg of T1 was added. The mean error was -9.3%; 2) with cobalt concentrate containing T1: mean error -9.1%. This method can be applied up to a T1 content of the least 5.10%. There are 3 tables and 2 Soviet-bloc-references.

Table 1: Solubility of carriers and coprecipitation of T1.

Card 4/5

MORACHEVSKIY, Yu.V. [deceased]; YEFREMDV, G.V.; SYUY CHZHI-GU [Heli Chih-ku]

Concentration of thallium by coprecipitation with poorly soluble lodides. Vest.IGU 16 no.10:137-141 '61. (MIRA 14:5)

(Thallium—Analysis) (Iodides)

YEFREMOV, G.V.; CHAYKINA, N.I. Concentrating silver, indium, and thallium by coprecipitation with copper diethyldithiocarbamate. Vest. LGU 17 no.16:151-153 '62. (MIRA 15:9)

(Metals--Analysis) (Urea)

YEFREMOV, G.V.; ZVEREVA, M.N.; TSEDEVSUREN, TS.

Separation of thallium from element impurities on an anion exchanger. Zav.lab. 28 no.2:159-161 '62. (MIRA 15:3)

1. Leningradskiy gosudarstvennyy universitet. (Thallium—Analysis) (Ion exchange)

"APPROVED FOR RELEASE: 09/19/2001 CIA-R

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YEFREMOV, G.V.; DYATLOVA, V.V.

Applicability of Schöniger's method in paper chrcmatography.

Vest.IGU 17 no.10:159-160 *62. (MIRA 15:5)

(Chromatographic analysis)

CHAYKINA, N.I.; YEFREMOV, G.V.

Extraction separation of silver, thallium, and indium from iron and manganese. Vest. LGU 18 no.22:155-153 '63. (MIRA 17:1)

ANDREYEVA, 1. Yu.; YEFREMOV, G. V.

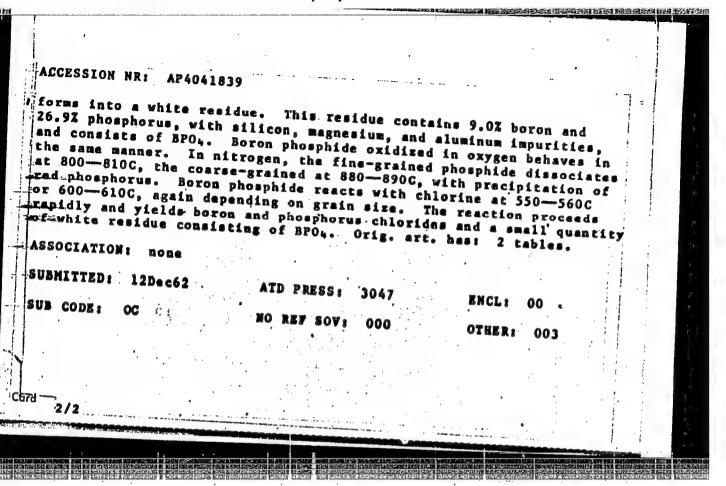
Nome chemical properties of boron phosphide. Vest. 160 19 no.10: 130-132 '64.

Determination of the chemical composity is of boron phosphide. Vest. 16U 19 nc.10:132-134 164.

Determination of free boron and phosphorus in boron phosphide. Ibid.:135-137. (MIRA 17:7)

5/0054/64/000/002/0130/0132 AP4041839 ACCESSION NR: Andreyeva, I. Yu., Yefremov, G. V. Certain chemical properties of boron phosphide Vestnik. Seriya fiziki i khimii, AUTHOR: TITLE: SOURCE: Leningrad. Universitet. TOPIC TAGS: boron, boron phosphide, boron phosphide property, boron phosphide solubility, boron phosphide oxidation, boron phosphide no. 2, 1964, 130-132 ABSTRACT: A study of the behavior of boron phosphide in acids, oxichlorination, boron phosphids stability dizing media, oxygen, nitrogen, and chlorine has shown that its. reactivity at 102-288C is highly dependent upon the grain size: coarse-grained boron phosphide is much more chemically stable than, fine-grained; at room temperature it does not react with acids at all. In boiling acids and liquid oxidizing media, coarse-grained boron phosphide dissolves at a much lower rate than fine-grained. The latter begins to oxidize in air at 550-560C; the former at 740-750C. At 800C, boros phosphide, regardless of grain size, Card 1/2_

APPROVED FOR RELEASE: 09/19/2001



ACCESSION NR: AP4041840

5/0054/64/000/002/0132/0134

AUTHOR: ...Andreyeva, I. Yu.; Yefremov, G. V.

TITLE: Determination of boron-phosphide chemical composition

SOURCE: Laningrad. Universitet. Vestnik, Seriya fiziki i khimii, no. 2, 1964, 132-134

TOPIC TAGS: boron phosphide, boron phosphide chemical composition, chemical composition determination, boron phosphide analysis, chemical apalysis

ABSTRACT: The following method for the chemical analysis of boron phosphide has been suggested. The boron phosphide is chlorinated at 560C (fine grained) or 610C (coarse grained) and the boron and phosphor chlorides obtained are absorbed in water. The remainder, consisting of BPO4, is converted into soluble form by fusing it with a mixture of Na₂CO₃ and NaNO₃. The boron and phosphorus in the obtained solutions are then determined by conventional methods. The boron and phosphorus contents in coarse-grained boron phosphide determined by

Card 1/2

ACCESSION NR: AP4041840 the above method varied from 25.0 to 26.9% and from 73.2 to 75.3%, respectively. Corresponding values for fine-grained phosphide varied from 25.1 to 26.6% and from 73.0 to 74.4%. The stoichiometric content is 25.9% boron and 74.1% phosphorus. Orig. art. has: 2 tables. ASSOCIATION: none SUBMITTED: 12Dec62 ATD PRESS: SUB CODE: IC. GC NO REF SOV: 001 OTHER: 008 Card 2/2

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L 36255-65 ENT(m)/ENP(t)/ENP(N) LJP(c) JD/GS ACCESSION NR; AT5007808 S/0000/64/000/000/0022/0029

· .

AUTHOR: Chaykina, N. I.; Yelretiov, G. V.

Trible: Chromatographic separation of microgram amounts of indium from large percentages of manganese and iron

SOURCE: Leningrad. Universitet: Metody kolichestvennogo opredeleniya elementov (Methods for the quantitative ditermination of elements). Leningrad, Izd-vo Leningr. univ., 1964, 22-29

TOPIC TAGS: indiam separation, column chromatography, ore analysis, iron analysis, cation exchange resin, anion exchange resin, manganese ore

ABSTRACT: Methods have been developed for separating indium in microgram amounts from large quantities of manganese and iron in manganese ore by ion exchange. The separation was studied with model mixtures labeled with indium-114 on the cation exchange resin KU-2 and with model blends and ore concentrates on the anion exchange resin EDE-10P. Best results in the separation of indium on the hydrogen form of KU-2 were obtained by eluting indium before manganese with 0.4-0.5 M hydrochloric acid, i.e., under conditions favoring the formation of anionic indium complexes. The method, however, does not give sharp separations in the presence of large amounts of Mn or Fe, and it is limited by the small adsorption Cord. 1/2

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36254-65 EVT (m)/ENP(t)/ENP(b) IJP(c) JD/JG/GS \$/9000/64/000/000/0030/0037 ACCESSION NR: AT5007809 AUTHOR: Chaykina, N. I.; Ye remov, G. V. TITIE: Chromatographic separation of microgram amounts of silver and thallies from large percentages of manganese and from 27 SOURCE: Leningrad. Universitet. Metody kolichestvennogo opredeleniya elementov (Methods for the quantitative determination of elements). Leningrad, Izd-vo Leningr. univ., 1964, 30-37 TOPIC TAGS; silver separation, thallium separation, manganese ore, ore analysis, iron analysis, column chromatography, cation exchange resin, anion exchange resin ABSTRACT: Methods have been developed for separating microgram quantities of silver and thallium from large amounts of manganese and iron in manganese ores by ion exchange. The separation was studied with model blends and manganese ores labeled with thallium-204 and silver-110 on cationic resin KU-2 and a mionic resin EDE-10P. As shown previously for indium, separation of silver or thallium by elution before manganese on the cationic resin is limited, particularly because of the relatively small adsorption capacity of the resin for mangamese. Satisfactory separations were obtained by adsorption of the anionic form of thallium III and of

L 36254-65 ACCESSION NR: ATS	5007809				
the chloride compl	lex of silver on	the anionic res	in EDE-10P an	t by alukton	0
can be eluted near	rly quantilistively	illum with water	r. Microgram	mounts of the	allium
rate 20 pg T1 + In	and lount Ag-fro	t TL are presen	t. The method	was used to	вера-
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JD/JG/GD IJP(c) EWT(m)/EWP(t)/ETI L 32671-66 UR/0000/65/000/000/0429/0432 SOURCE CODE: (Λ) ACC NR: AT6013572 AUTHOR: Yefremov, G. V.; Andreyeva, I. Yu. Pitl ORG: Leningrad State University im. A. A. Zhdanov (Leningradskiy gosudarstvennyy universitet) TITLE: About some chemical properties and determination of composition of the boron phosphide SOURCE: AN UkrSSR. Institut problem materialovedeniya. Vysokotemperaturnyye neorganicheskiye soyedineniya (High temperature inorganic compounds). Kiev, Naukova dumka, 1965, 429-432 TOPIC TAGS: boron compound, solubility, phosphide, phosphorus, CHEMICAL STABILITY. OXIDATION, CHEMICAL DECOMPOSITION ABSTRACT: Solubility in HNO3, H2SO4, HCl, B2 saturated KBr, NaOH, H2C2O4, H4C4H4O6, H₃C₆H₅O₇, H₂O₂, and mixtures thereof in various concentrations was studied for fine and coarse boron phosphide verystals. Oxidation and decomposition in both nitrogen and chlorine streams was investigated at 500°-800°C. It was found that the chemical stability of boron phosphide depends upon crystal size. Accordingly, course boron phosphide crystals were found to be insoluble in either of the individual solvents or mixtures thereof while fine crystals were, generally, partially soluble in those solvents. In air or oxygen stream, boron phosphide oxidized to BPO4. The oxidation occured at 5500-Card 1/2

-560°C for fine crystals and at 740°-750°C for coarse crystals and in both cases oxidation was rapid at 800°C. In the nitrogen stream, the decomposition into boron and phosphorus occured at 800°-810°C for fine crystals and at 800°-890°C for coarse crystals. Fine and coarse crystals of boron phosphide reacted with chlorine at 550°-560° and 600°-610°C, respectively. The composition of boron phosphide is shown in a table								-560°C					
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YEFREMOV, G.V.: POTAPOV, N.S., red.; KRASNAYA, A.K., tekhn. red.

[Manual for a ship's carpenter] Uchebnik dlia sudovogo plotnika. Moskva, Rechizdat, 1951. 198 p. (MIRA 16:7)
(Carpentry—Handbooks, manuals, etc.)
(Shipbuilding—Handbooks, manuals, etc.)

- 1. YEFREMOV, G. V.
- 2. USSR (600)
- 4. Inland Water Transportation

7. Wider adoption of new texhnique in river transportation. Rech. transp. 12 no. 5, 1952

9. Monthly List of Russian Accessions, Library of Congress, January 1953, Unclassified.

SECTION AND DESIGNATION OF THE PROPERTY OF THE

STRAKHOV, A.P.; YHPREMOV, G.V., inzhener, redaktor; AMININ. V.G., inzhener, religenzent.

[New ship models for the Greater Volga] Suda novýkh tipov dlia Bol'shoi Volgi. Moskva, Gos. nauchno-tekhn, isd-vo mashinostroit. i sudostroit. lit-ry, 1954. 89 p. (MIRA 7:7) (Volga river--Navigation) (Ships)

YEFREMOV. G.V.; NOVIK, R.I., redaktor; KIRILLOV. V.V., retsencent; BUTORIN, I.M., retsenzent; SEMENOVA, M.M., redaktor; BEGICHEVA, M.H., tekhnicheskiy redaktor

[Design and repair of vessels lacking self-propulsion] Ustroistvo i remont nesamokhodnykh sudov. Moskva, Izd-vo "Rechnoi transport," (MIRA 8:4) 1954. 24? p.

(Bearges) (Boat building)

(Tank vessels)

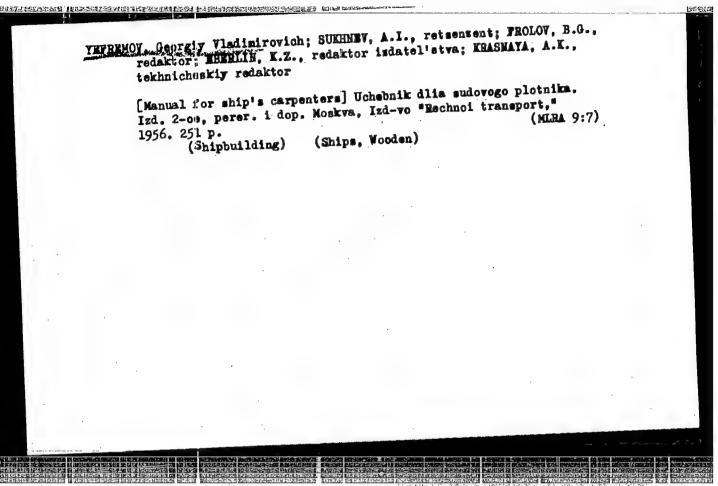
DRINKOV, Valentin Dmitriyevich; TRIPREMOV. Q.J., retsenzent; LUPICHEV, N.P., redaktor; KAN, P.M., redaktor izdatel stva; SALAZKOV, N.P., tekhnicheskiy redaktor [The hulls of inland waters oil tankers] Korpusa neftenalivnykh sudov vnutrennego plavaniia. Moskva, Izd-vo "Rechnoi transport," 1956. (MLRA 9:10)

(Hulls (Naval architecture))

विवेद्यसम्बद्धाः स्ति । स्वेद्यसम्बद्धाः स्टब्स् । अस्यवास्त्रस्य स्थापः ।

233 p.

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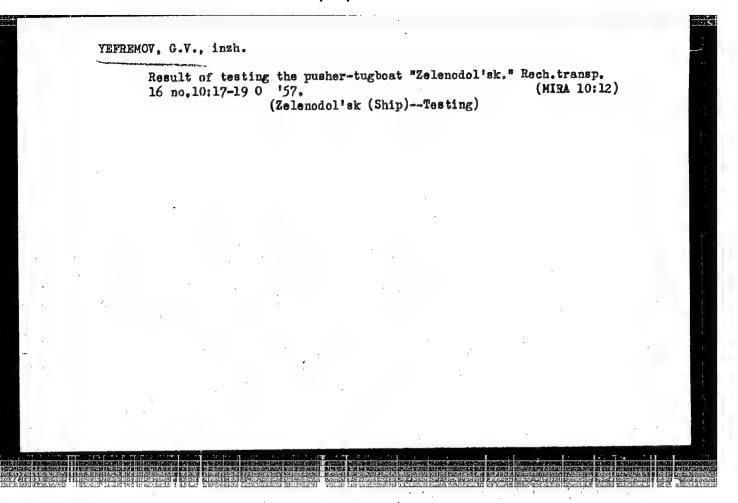


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